

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/813,690	03/31/2004	Michio Kadota	36856.1238	1142	
MURATA MANUFACTURING COMPANY, LTD. C/O KEATING & BENNETT, LLP 8180 GREENSBORO DRIVE SUITE 850 MCLEAN, VA 22102			EXAM	EXAMINER	
			DOUGHERTY	DOUGHERTY, THOMAS M	
			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 07/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/813,690	KADOTA, MICHIO			
		Examiner	Art Unit			
		Thomas M. Dougherty	2834			
	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
Period fo	• •	/ IO OFT TO EVOIDE AMOUNT!	(C) OD THIDTY (20) DAVE			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 27 Ap	<u>oril 2005</u> .				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	on of Claims					
4)🖂	Claim(s) 1-21 and 23-32 is/are pending in the a	application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	5)⊠ Claim(s) <u>21 and 23-32</u> is/are allowed.					
6)⊠	☑ Claim(s) <u>1 and 11</u> is/are rejected.					
· ·	Claim(s) <u>2-10</u> is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10)🛛	10)⊠ The drawing(s) filed on <u>21 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Prio rity ι	ınder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No. 09/654,113.					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachmen		_	•			
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D				
3) X Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)			
Paper No(s)/Mail Date 304						

Application/Control Number: 10/813,690

Art Unit: 2834

Ģ.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsutsumi et al. (JP 09-018272). Tsutsumi et al. teach a surface acoustic wave device comprising: a LiTaO₃ substrate (see constitution); and an interdigital transducer provided on the LiTaO₃ substrate (see PURPOSE), said interdigital transducer containing as a major component at least one of Au, Ag, Ta, Mo, Cu, Ni, Cr, Zn, and W; wherein said interdigital transducer has a normalized film thickness H/λ within a range of approximately 0.001 to approximately 0.05 so as to excite a shear horizontal wave. See paragraph 36 of the translated description.

The device of Tsutsumi et al. as it is a surface acoustic wave device is intended for use in a communication device.

Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Baer et al. (US 5,283,037). Baer et al. teach (col. 4, l. 65 to col. 5, l. 16) a surface acoustic wave device comprising: a LiTaO₃ substrate (see constitution); and an interdigital transducer provided on the LiTaO₃ substrate (see PURPOSE), said interdigital transducer containing as a major component at least one of Au, Ag, Ta, Mo, Cu, Ni, Cr, Zn, and W; wherein said interdigital transducer has a normalized film

thickness H/ λ within a range of approximately 0.001 to approximately 0.05 (the cited 4-400 microns of Baer et al. results in a ratio of .025 to .25) so as to excite a shear horizontal wave (col. 8, I. 12). The device of Baer et al. as it is a surface acoustic wave device is intended for use in a communication device in that it communicates viscosity, etc.

Page 3

Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimoe et al. (EP 0 734 120 A1). Shimoe et al. teach a surface acoustic wave device comprising: a LiTaO₃ substrate (see abstract); and an interdigital transducer provided on the LiTaO₃ substrate, said interdigital transducer containing as a major component at least one of Au, Ag, Ta, Mo, Cu, Ni, Cr, Zn, and W (see col. 5, line 10); wherein said interdigital transducer has a normalized film thickness H/λ within a range of approximately 0.001 to approximately 0.05 so as to excite a shear horizontal wave (see abstract).

The device of Shimoe et al. as it is a surface acoustic wave device is intended for use in a communication device (a filter).

Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Ueda et al. (US 6,037,847). Ueda et al. teach a surface acoustic wave device comprising: a LiTaO₃ substrate (see abstract); and an interdigital transducer provided on the LiTaO₃ substrate, said interdigital transducer containing as a major component at least one of Au, Ag, Ta, Mo, Cu, Ni, Cr, Zn, and W (see col. 10, lines 54-65); wherein said interdigital transducer has a normalized film thickness H/λ within a range of

Application/Control Number: 10/813,690 Page 4

Art Unit: 2834

approximately 0.001 to approximately 0.05 so as to excite a shear horizontal wave (see abstract).

The device of Ueda et al. as it is a surface acoustic wave device is intended for use in a communication device (a passband filter).

Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Yutaka (GB 2 288 503). Yutaka teaches a surface acoustic wave device comprising: a LiTaO₃ substrate (see abstract); and an interdigital transducer provided on the LiTaO₃ substrate, said interdigital transducer containing as a major component at least one of Au, Ag, Ta, Mo, Cu, Ni, Cr, Zn, and W (see page 6, line 4; wherein said interdigital transducer has a normalized film thickness H/ λ within a range of approximately 0.001 to approximately 0.05 so as to excite a shear horizontal wave (see abstract).

The device of Yutaka as it is a surface acoustic wave device is intended for use in a communication device (a filter).

Allowable Subject Matter

Claims 2-10 and 12-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 21 and 23-32 are allowed.

Direct inquiry to Examiner Dougherty at (571) 272-2022.

tmd tmd

June 21, 2006

Monus M. (begger & TOM DOUGHERTTY EXAMPLER